

#9

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/511,814
Source: PCR
Date Processed by STIC: 12/14/05

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,814

DATE: 12/14/2005
 TIME: 14:45:13

Input Set : A:\211080016U2.TXT
 Output Set: N:\CRF4\12142005\J511814.raw

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4 <110> APPLICANT: McCance, Dennis
5     Westbrook, III, Thomas F.
7 <120> TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
10 <130> FILE REFERENCE: 21108.0016U2
12 <140> CURRENT APPLICATION NUMBER: 10/511,814
C--> 13 <141> CURRENT FILING DATE: 2004-10-19
15 <150> PRIOR APPLICATION NUMBER: PCT/US03/12667
16 <151> PRIOR FILING DATE: 2003-04-21
18 <150> PRIOR APPLICATION NUMBER: 60/374,245
19 <151> PRIOR FILING DATE: 2002-04-19
21 <160> NUMBER OF SEQ ID NOS: 21
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 273
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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36   1           5           10          15
37 His Ile Glu Gly Tyr Glu Cys Gln Pro Ile Phe Leu Asn Val Leu Glu
38   20          25          30
39 Ala Ile Glu Pro Gly Val Val Cys Ala Gly His Asp Asn Asn Gln Pro
40   35          40          45
41 Asp Ser Phe Ala Ala Leu Leu Ser Ser Leu Asn Glu Leu Gly Glu Arg
42   50          55          60
43 Gln Leu Val His Val Val Lys Trp Ala Lys Ala Leu Pro Gly Phe Arg
44   65          70          75          80
45 Asn Leu His Val Asp Asp Gln Met Ala Val Ile Gln Tyr Ser Trp Met
46   85          90          95
47 Gly Leu Met Val Phe Ala Met Gly Trp Arg Ser Phe Thr Asn Val Asn
48   100         105         110
49 Ser Arg Met Leu Tyr Phe Ala Pro Asp Leu Val Phe Asn Glu Tyr Arg
50   115         120         125
51 Met His Lys Ser Arg Met Tyr Ser Gln Cys Val Arg Met Arg His Leu
52   130         135         140
53 Ser Gln Glu Phe Gly Trp Leu Gln Ile Thr Pro Gln Glu Phe Leu Cys
54   145         150         155         160
55 Met Lys Ala Leu Leu Phe Ser Ile Ile Pro Val Asp Gly Leu Lys
56   165         170         175
57 Asn Gln Lys Phe Phe Asp Glu Leu Arg Met Asn Tyr Ile Lys Glu Leu

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58 180 185 190
 59 Asp Arg Ile Ile Ala Cys Lys Arg Lys Asn Pro Thr Ser Cys Ser Arg
 60 195 200 205
 61 Arg Phe Tyr Gln Leu Thr Lys Leu Leu Asp Ser Val Gln Pro Ile Ala
 62 210 215 220
 63 Arg Glu Leu His Gln Phe Thr Phe Asp Leu Leu Ile Lys Ser His Met
 64 225 230 235 240
 65 Val Ser Val Asp Phe Pro Glu Met Met Ala Glu Ile Ile Ser Val Gln
 66 245 250 255
 67 Val Pro Lys Ile Leu Ser Gly Lys Val Lys Pro Ile Tyr Phe His Thr
 68 260 265 270
 69 Gln
 72 <210> SEQ ID NO: 2
 73 <211> LENGTH: 344
 74 <212> TYPE: PRT
 75 <213> ORGANISM: Artificial Sequence
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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 81 <400> SEQUENCE: 2
 82 Trp Ser Gln Pro Lys Thr Pro Val Pro Ala Gln Arg Glu Arg Ala Pro
 83 1 5 10 15
 84 Val Ser Gly Thr Gln Glu Lys Asn Lys Ile Arg Pro Arg Gly Gln Arg
 85 20 25 30
 86 Asp Ser Ser Tyr Tyr Trp Glu Ile Glu Ala Ser Glu Val Met Leu Ser
 87 35 40 45
 88 Thr Arg Ile Gly Ser Gly Ser Phe Gly Thr Val Tyr Lys Gly Lys Trp
 89 50 55 60
 90 His Gly Asp Val Ala Val Lys Ile Leu Lys Val Val Asp Pro Thr Pro
 91 65 70 75 80
 92 Glu Gln Phe Gln Ala Phe Arg Asn Glu Val Ala Val Leu Arg Lys Thr
 93 85 90 95
 94 Arg His Val Asn Ile Leu Leu Phe Met Gly Tyr Met Thr Lys Asp Asn
 95 100 105 110
 96 Leu Ala Ile Val Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr Lys His
 97 115 120 125
 98 Leu His Val Gln Glu Thr Lys Phe Gln Met Phe Gln Leu Ile Asp Ile
 99 130 135 140
 100 Ala Arg Gln Thr Ala Gln Gly Met Asp Tyr Leu His Ala Lys Asn Ile
 101 145 150 155 160
 102 Ile His Arg Asp Met Lys Ser Asn Asn Ile Phe Leu His Glu Gly Leu
 103 165 170 175
 104 Thr Val Lys Ile Gly Asp Phe Gly Leu Ala Thr Val Lys Ser Arg Trp
 105 180 185 190
 106 Ser Gly Ser Gln Gln Val Glu Gln Pro Thr Gly Ser Val Leu Trp Met
 107 195 200 205
 108 Ala Pro Glu Val Ile Arg Met Gln Asp Asn Asn Pro Phe Ser Phe Gln
 109 210 215 220
 110 Ser Asp Val Tyr Ser Tyr Gly Ile Val Leu Tyr Glu Leu Met Thr Gly

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111 225          230          235          240
112 Glu Leu Pro Tyr Ser His Ile Asn Asn Arg Asp Gln Ile Ile Phe Met
113          245          250          255
114 Val Gly Arg Gly Tyr Ala Ser Pro Asp Leu Ser Lys Leu Tyr Lys Asn
115          260          265          270
116 Cys Pro Lys Ala Met Lys Arg Leu Val Ala Asp Cys Val Lys Lys Val
117          275          280          285
118 Lys Glu Glu Arg Pro Leu Phe Pro Gln Ile Leu Ser Ser Ile Glu Leu
119          290          295          300
120 Leu Gln His Ser Leu Pro Lys Ile Asn Arg Ser Ala Ser Glu Pro Ser
121          305          310          315          320
122 Leu His Arg Ala Ala His Thr Glu Asp Ile Asn Ala Cys Thr Leu Thr
123          325          330          335
124 Thr Ser Pro Arg Leu Pro Val Phe
125          340
127 <210> SEQ ID NO: 3
128 <211> LENGTH: 20
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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136 <400> SEQUENCE: 3
137 Lys Met Ser Lys Asp Gly Lys Lys Lys Lys Lys Lys Thr Lys Thr Lys
138 1          5          10          15
139 Cys Ile Ile Met
140          20
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143 <211> LENGTH: 164
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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151 <400> SEQUENCE: 4
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153 1          5          10          15
154 Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu Arg Arg
155          20          25          30
156 Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala Arg Glu Arg
157          35          40          45
158 Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu Gly Asp Phe Ala
159          50          55          60
160 Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys Leu Tyr Leu Pro Thr
161          65          70          75          80
162 Gly Pro Arg Arg Gly Arg Asp Glu Leu Gly Gly Arg Arg Pro Gly
163          85          90          95
164 Thr Ser Pro Ala Leu Leu Gln Gly Thr Ala Glu Glu Asp His Val Asp
165          100         105         110

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```

166 Leu Ser Leu Ser Cys Thr Leu Val Pro Arg Ser Gly Glu Gln Ala Glu
167      115          120          125
168 Gly Ser Pro Gly Gly Pro Gly Asp Ser Gln Gly Arg Lys Arg Arg Gln
169      130          135          140
170 Thr Ser Met Thr Asp Phe Tyr His Ser Lys Arg Arg Leu Ile Phe Ser
171 145          150          155          160
172 Lys Arg Lys Pro
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 495
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
182 Synthetic Construct
184 <400> SEQUENCE: 5
185 Ala Thr Gly Thr Cys Ala Gly Ala Ala Cys Cys Gly Gly Cys Thr Gly
186 1           5           10          15
187 Gly Gly Gly Ala Thr Gly Thr Cys Cys Gly Thr Cys Ala Gly Ala Ala
188 20          25          30
189 Cys Cys Cys Ala Thr Gly Cys Gly Cys Ala Gly Cys Ala Ala Gly
190 35          40          45
191 Gly Cys Cys Thr Gly Cys Cys Gly Cys Cys Cys Thr Cys Thr
192 50          55          60
193 Thr Cys Gly Gly Cys Cys Ala Gly Thr Gly Gly Ala Cys Ala Gly
194 65          70          75          80
195 Cys Gly Ala Gly Cys Ala Gly Cys Thr Gly Ala Gly Cys Cys Gly Cys
196 85          90          95
197 Gly Ala Cys Thr Gly Thr Gly Ala Thr Gly Cys Gly Cys Thr Ala Ala
198 100         105         110
199 Thr Gly Gly Cys Gly Gly Cys Thr Gly Cys Ala Thr Cys Cys Ala
200 115         120         125
201 Gly Gly Ala Gly Gly Cys Cys Gly Thr Gly Ala Gly Cys Gly Ala
202 130         135         140
203 Thr Gly Gly Ala Ala Cys Thr Thr Cys Gly Ala Cys Thr Thr Thr Gly
204 145         150         155         160
205 Thr Cys Ala Cys Cys Gly Ala Gly Ala Cys Ala Cys Cys Ala Cys Thr
206 165         170         175
207 Gly Gly Ala Gly Gly Gly Thr Gly Ala Cys Thr Thr Cys Gly Cys Cys
208 180         185         190
209 Thr Gly Gly Ala Gly Cys Gly Thr Gly Thr Gly Cys Gly Gly Gly
210 195         200         205
211 Gly Cys Cys Thr Thr Gly Gly Cys Cys Thr Gly Cys Cys Cys Ala Ala
212 210         215         220
213 Gly Cys Thr Cys Thr Ala Cys Cys Thr Thr Cys Cys Cys Ala Cys Gly
214 225         230         235         240
215 Gly Gly Gly Cys Cys Cys Gly Gly Cys Gly Ala Gly Gly Cys Cys
216 245         250         255
217 Gly Gly Gly Ala Thr Gly Ala Gly Thr Thr Gly Gly Gly Ala Gly Gly
218 260         265         270

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```

219 Ala Gly Gly Cys Ala Gly Gly Cys Gly Gly Cys Cys Thr Gly Gly Cys
220      275          280          285
221 Ala Cys Cys Thr Cys Ala Cys Cys Thr Gly Cys Thr Cys Thr Gly Cys
222      290          295          300
223 Thr Gly Cys Ala Gly Gly Gly Ala Cys Ala Gly Cys Ala Gly Ala
224 305          310          315          320
225 Gly Gly Ala Ala Gly Ala Cys Cys Ala Thr Gly Thr Gly Gly Ala Cys
226      325          330          335
227 Cys Thr Gly Thr Cys Ala Cys Thr Gly Thr Cys Thr Thr Gly Thr Ala
228      340          345          350
229 Cys Cys Cys Thr Thr Gly Thr Gly Cys Cys Thr Cys Gly Cys Thr Cys
230      355          360          365
231 Ala Gly Gly Gly Gly Ala Gly Cys Ala Gly Gly Cys Thr Gly Ala Ala
232      370          375          380
233 Gly Gly Gly Thr Cys Cys Cys Ala Gly Gly Thr Gly Gly Ala Cys
234 385          390          395          400
235 Cys Thr Gly Gly Ala Gly Ala Cys Thr Cys Thr Cys Ala Gly Gly Gly
236      405          410          415
237 Thr Cys Gly Ala Ala Ala Ala Cys Gly Gly Cys Gly Gly Cys Ala Gly
238      420          425          430
239 Ala Cys Cys Ala Gly Cys Ala Thr Gly Ala Cys Ala Gly Ala Thr Thr
240      435          440          445
241 Thr Cys Thr Ala Cys Cys Ala Cys Thr Cys Cys Ala Ala Ala Cys Gly
242      450          455          460
243 Cys Cys Gly Gly Cys Thr Gly Ala Thr Cys Thr Thr Cys Thr Cys Cys
244 465          470          475          480
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248 <210> SEQ ID NO: 6
249 <211> LENGTH: 480
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence:/Note =
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257 <400> SEQUENCE: 6
258 Met Ser Asp Val Ala Ile Val Lys Glu Gly Trp Leu His Lys Arg Gly
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260 Glu Tyr Ile Lys Thr Trp Arg Pro Arg Tyr Phe Leu Leu Lys Asn Asp
261      20          25          30
262 Gly Thr Phe Ile Gly Tyr Lys Glu Arg Pro Gln Asp Val Asp Gln Arg
263      35          40          45
264 Glu Ala Pro Leu Asn Asn Phe Ser Val Ala Gln Cys Gln Leu Met Lys
265      50          55          60
266 Thr Glu Arg Pro Arg Pro Asn Thr Phe Ile Ile Arg Cys Leu Gln Trp
267 65          70          75          80
268 Thr Thr Val Ile Glu Arg Thr Phe His Val Glu Thr Pro Glu Glu Arg
269      85          90          95
270 Glu Glu Trp Thr Thr Ala Ile Gln Thr Val Ala Asp Gly Leu Lys Lys

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date